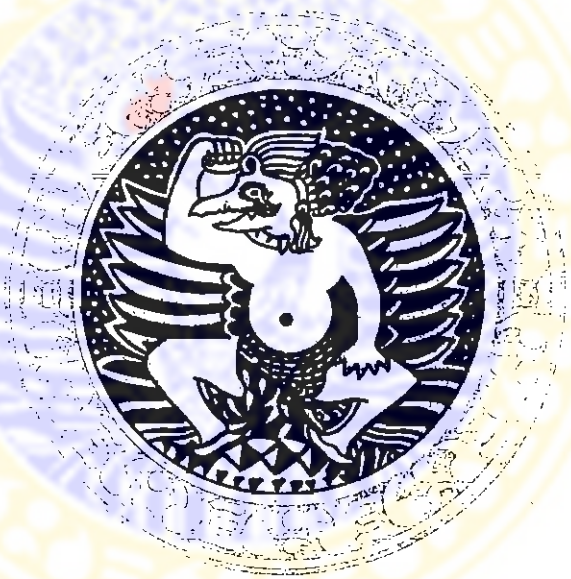
- ANTIMALARIAS
- PLASMODIUM

SKRIPSI

NUR DHANI WIDYO UTOMO

AKTIVITAS ANTIMALARIA EKSTRAK METANOL KULIT BATANG CEMPEDAK (*ARTOCARPUS CHAMPEDEN* SPRENG.) TERHADAP *PLASMODIUM BERGHEI IN VIVO*



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Lembar Pengesahan

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SKRIPSI

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Oleh :

Nur Dhani Widyo Utomo
NIM : 059811992

Disetujui Oleh :

Pembimbing Utama

Dra. Aty Widyawaruyanti, Apt. MSi.
NIP. 131877884

Pembimbing Serta

Dra. Wiwied Ekasari Apt. MSi.
NIP: 132087863

Pembimbing Serta

Dr. Indah Tantular, Mkes. PhD.
NIP: 131954058

ABSTRACT

The methanolic extract of *Artocarpus champeden* Spreng. stem bark was evaluated for antimalarial actvity *in vivo*, in 4-day, suppressive assays against Plasmodium berghei ANKA in mice. An *in vivo* model to study the antimalaria effect of plant extract is described. Selected Balb/c mices(20-25 g body weight) were divided into 8 groups, each consist of 3 mice. Each animal was injected with *Plasmodium berghei* infected RBCs. The screening was done by Peter's test, mices were treated orally with diluted extract in dose levels of 1 mg/kg, 12,5 mg/kg, 25 mg/kg, 50 mg/kg, 75 mg/kg and 100 mg/kg for 6 groups start two days after the infection. Two groups served as control. The negative control was treated with 0,5 ml 0,5 % DMSO solution. The positive control was treated with a dose of 10 mg/ kg body weight Chloroquine diphosphat solution. The. concentration of methanolic extract required for 50% suppression (ED_{50}) of *P. berghei* in mice was 6,95419 mg/kg.

Key words: *Artocarpus champeden* Spreng., *Plasmodium berghei*, Antimalarial activity, Peter's test.